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09/657,661	09/08/2000	Loren G. Knutson	068520.0112 3017		
7590 10/27/2004			EXAMINER		
Baker Botts LLP			SHRADER, LAWRENCE J		
2001 Ross Avenue Dallas, TX 75201-2980			ART UNIT	PAPER NUMBER	
			2124		
			DATE MAIL ED: 10/27/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.



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		Application	ı No.	Applicant(s)	9 K			
Office Action Summary		09/657,661		KNUTSON, LOREN G.				
		Examiner		Art Unit				
		Lawrence S		2124				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - External after - If the control of the contro	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, the provision of the provision	36(a). In no even y within the statute will apply and will o, cause the applic	t, however, may a reply be timery ory minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication O (35 U.S.C. § 133).				
Status								
1) 🛛	Responsive to communication(s) filed on <u>01 Ju</u>	ulv 2004.						
2a)⊠	This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims				*			
5)	Claim(s) <u>1-22</u> is/are pending in the application 4a) Of the above claim(s) <u>2 and 5</u> is/are withdra Claim(s) <u></u> is/are allowed. Claim(s) <u>1, 3, 4, and 6 - 22</u> is/are rejected. Claim(s) <u></u> is/are objected to. Claim(s) <u></u> are subject to restriction and/o	awn from coi						
Applicat	ion Papers							
9)	The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the	drawing(s) be	held in abeyance. See	e 37 CFR 1.85(a).				
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	•	• , ,	•).			
Priority (under 35 U.S.C. § 119		,					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
2) Notice 3) Information	te of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 7/01/04.		1) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

1. This action is in response to the amendment filed on July 1, 2004.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on July 1, 2004 is acknowledged and has been considered.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 3, 4, 6, 7, 14; and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fowlow et al., U.S. Patent 6,083,277 in view of Hasegawa et al., U.S. Patent 6,333,752 (art of record, hereinafter referred to as Hasegawa).

In regard to claim 1, Fowlow discloses a means of providing a set of distinct predetermined function definitions comprising:

"A plurality..." Fowlow discloses a plurality of function portions comprised of components having methods performing specific predetermined functions, having an input port and an output port (by which information is obtained and sent) related by the

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corresponding function definition (Abstract; column 2, lines 1-30; e.g., Figure 3). An interface defines a protocol of behavior (predetermined functions) with a set of constant and method definitions contained within an interface that can be implemented by any class anywhere in the class hierarchy. When a class implements an interface, the class agrees to implement all the methods (a function portion corresponding to a function definition) defined in the interface.

"A further portion..." Fowlow discloses that the interface is retrieved to determine the both the destination portion (plugs) and the source portion (sockets), as well as the input and output ports through which the data is supplied and produced (Abstract; column 2, lines 1-60; e.g., Figure 3).

"Binding information..." Information is processed and an input is associated with a respective output wherein Fowlow discloses that the interface is retrieved to determine the both the destination portion (plugs) and the source portion (sockets), as well as the input and output ports through which the data is supplied and produced (Abstract; column 2, lines 1-60; e.g., Figures 4 and 5).

"Wherein said function definitions identifies a separate image processing program..."

Fowlow discloses connection links between separate components causing storing and execution of a definition (described in the interface of the object component; Abstract, e.g., Figures 4 and 5). Each component is an object, inherently behaving as a function or operation encoded in software accessing the internal state of the object. In this sense Fowlow discloses a separate application wherein the method of the object constitutes a command to another application (object) in a manner that affects the data (e.g., Figure 3; column 6, line 54 to column 7, line 10);

but Fowlow does not explicitly disclose image data acted upon by the predetermined functions. However, Hasegawa discloses image data processing managing parameters for image display. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the Fowlow invention providing a set of predetermined functions identifying an application program with a command that affects data being image data as disclosed by Hasegawa, because the predetermined function definitions are well suited to manage the parameters and their values as disclosed by Hasegawa in the Abstract, providing a command for image processing in the object builder of Fowlow.

In regard to claim 3, incorporating the rejection of claim 1:

"...including the steps of concurrently executing said project definition and an instance of said application program." Fowlow discloses objects that act as project definitions having an input port and an output port (by which information is obtained and sent) related by the corresponding function definition (Abstract; column 2, lines 1-30; e.g., Figure 3). The method inherently runs as an application executing the method of the object.

In regard to claim 21, incorporating the rejection of claim 1:

"wherein execution of said command by said image processing program conforms said image data to a generally similar appearance." An object, as disclosed by Fowlow (e.g., Figure 3), inherently represents any real world or abstract entity, therefore, an object representing an image would inherently represent an image-processing program.

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In regard to claims 4, 6, and 22 (a computer-readable medium), they are rejected for the same reasons put forth in the rejection of claims 1, 3, and 21 respectively (a corresponding method).

In regard to claim 7:

"Modifying said set to include at least one custom function which is functionally different from each of said predetermined function definitions and which identified a separate image processing program." Fowlow discloses a method for an application builder to design a custom project definition by determining previously defined object interfaces (predetermined function definitions) and connecting them accordingly to create a create a custom function different from each of the predetermined function definitions (column 6, lines 28 – 50; e.g., Figure 4), but Fowlow does not explicitly disclose image data acted upon by the predetermined functions. However, Hasegawa discloses image data processing managing parameters for image display. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the Fowlow invention providing a set of predetermined functions identifying an application program with a command that affects data, being image data, as disclosed by Hasegawa, because the predetermined function definitions are well suited to manage the parameters and their values as disclosed by Hasegawa in the Abstract.

"A plurality..." Fowlow discloses a plurality of function portions comprised of components having methods performing specific predetermined functions, having an input port and an output port (by which information is obtained and sent) related by the corresponding function definition (Abstract; column 2, lines 1-30; e.g., Figure 3). An

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interface defines a protocol of behavior (predetermined functions) with a set of constant and method definitions contained within an interface that can be implemented by any class anywhere in the class hierarchy. When a class implements an interface, the class agrees to implement all the methods (a function portion corresponding to a function definition) defined in the interface.

"A further portion..." Fowlow discloses that the interface is retrieved to determine the both the destination portion (plugs) and the source portion (sockets), as well as the input and output ports through which the data is supplied and produced (Abstract; column 2, lines 1-60; e.g., Figure 3).

"Binding information..." Information is processed and an input is associated with a respective output wherein Fowlow discloses that the interface is retrieved to determine the both the destination portion (plugs) and the source portion (sockets), as well as the input and output ports through which the data is supplied and produced (Abstract; column 2, lines 1-60; e.g., Figures 4 and 5).

"Wherein one of said function portions corresponds to said custom function definition..."

Fowlow discloses a method for an application builder to design a custom project definition by determining previously defined object interfaces (predetermined function definitions) and connecting them accordingly to create a create a custom function different from each of the predetermined function definitions (column 6, lines 28 – 50; e.g., Figure 4), but Fowlow does not explicitly disclose image data acted upon by the predetermined functions. However, Hasegawa discloses image data processing managing parameters for image display. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to

combine the Fowlow invention providing a set of predetermined functions identifying an application program with a command that affects data, being image data, as disclosed by Hasegawa, because the predetermined function definitions are well suited to manage the parameters and their values as disclosed by Hasegawa in the Abstract, providing a command for image processing in the object builder of Fowlow.

In reference to claim 14 (computer-readable medium), it is rejected for the same reasons put forth in the rejection of claim 7 (method).

5. Claims 8 – 11; and 15 – 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fowlow et al., U.S. Patent 6,083,277 in view of Davis et al. U.S. Patent 6,002,876 (hereinafter referred to as Davis).

In regard to claim 8, incorporating the rejection of claim 7 above:

"... wherein said modifying step includes the step of creating said custom function definition by modifying one of said predetermined function definitions." Fowlow discloses a plurality of functions with related inputs and outputs, but does not teach the modification of functions. Davis teaches modification of a predetermined function (column 3, lines 17 – 28) in order to allow a program to operate in a number of instruction sets. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the method of defining a plurality of functions with related inputs and outputs as taught by Fowlow with the teaching of Davis by allowing modification of in instruction set with new functions, or updating

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existing functions, thus extending the utility of the project definition by providing an efficient means of upgrading the functions as taught by Davis.

In regard to claim 9, incorporating the rejection of claim 8.

"...wherein said modifying step includes the step of replacing in said set said one predetermined function definition with said custom function definition." Fowlow discloses a plurality of functions with related inputs and outputs, but does not teach the modification of functions. Davis teaches modification of a predetermined function with a user modified function (column 3, lines 17 – 28) allowing a program to operate in a number of instruction sets. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the method of defining a plurality of functions with related inputs and outputs as taught by Fowlow with the teaching of Davis by allowing modification of in instruction set with new functions, or updating existing functions, thus extending the utility of the project definition by providing an efficient means of upgrading the functions as taught by Davis (column 3, lines 17 – 28).

In regard to claim 10, incorporating the rejection of claim 8.

"...wherein said modifying step includes the step of including in said set each of said custom function definition and said one predetermined function definition." Fowlow discloses a plurality of functions with related inputs and outputs, but does not teach the modification of functions. Davis teaches modification or inclusion of a custom function (a substitute function) within a set of predefined functions (column 4, lines 41 - 43) allowing a program to operate in a number of instruction sets with separate function compilations. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the method of

defining a plurality of functions with related inputs and outputs as taught by Fowlow with the teaching of Davis by allowing inclusion of a custom function in an instruction set, thus extending the utility of the project definition by providing an efficient means of upgrading or modifying the function set as taught by Davis (column 3, lines 17 - 28).

In regard to claim 11, incorporating the rejection of claim 8.

"Modifying source code ..."

"Compiling source code..."

"Including said object code in said set."

Fowlow discloses a plurality of functions with related inputs and outputs, but does not teach the modification of functions, compiling the modified code, and including the object code into the set of functions. Davis further teaches modification, compilation and inclusion of resulting object code into the function set (column 4, lines 15 - 50) in a development environment (column 5, lines 1 - 3). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the method of defining a plurality of functions with related inputs and outputs as taught by Fowlow with the teaching of Davis by allowing modification of the function set with additional functions, compiling the modified code and including the resultant object code in the function set to provide an efficient way of recompiling individual functions without recompiling the entire routine as taught by Davis (column 4, lines 40 - 50).

In reference to claims 15-18 (computer-readable medium), they are rejected for the same reasons put forth in the rejection of claims 8-11 (method) respectively.

6. Claims 12, 13, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fowlow et al., U.S. Patent 6,083,277 in view of Davis et al. U.S. Patent 6,002,876 as applied to claim to claim 11, above, and further in view of Sleep et al., U.S. Patent 6,317,648 (hereinafter referred to as Sleep).

In regard to claims 12 and 13:

Fowlow discloses a plurality of functions with related inputs and outputs, but does not teach the use of an off-line development environment (claim 12) that includes Visual Basic (claim 13). Davis teaches a development environment, but not an off-line environment with Visual Basic. Sleep teaches an off-line development environment using Visual Basic (column 32, lines 38 – 60). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to combine the method of defining a plurality of functions with related inputs and outputs as taught by Fowlow with the teaching of Davis by allowing modification of the function set and incorporating additional functions, compiling the modified code and including the resultant object code in the function set, and further modified by the teaching of Sleep by providing on off-line development environment using Visual Basic, which would provide a well known tool to modify the functions in an environment that stores the various configurations after creation or modification for future use as taught by Sleep (column 32, lines 51 – 52).

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In reference to claims 19 and 20 (computer-readable medium), they are rejected for the same reasons put forth in the rejection of claims 12 and 13 (method) respectively.

Response to Arguments

7. Applicant's arguments filed January 9, 2004 have been fully considered but they are not persuasive:

The Applicant has argued:

(A) "The Examiner admits that "Fowlow does not explicitly disclose image data acted upon by the predetermined functions." However, the Examiner states that "Hasewaga discloses image data processing managing parameters for image display." Office Action, page 4. Applicant respectfully requests the Examiner to reconsider the language of Claim 1 and the disclosures of Fowlow and Hasegawa. In particular, Applicant respectfully submits that the Fowlow–Hasegawa combination fails to teach or suggest that "one of said function definitions identifies a separate image processing propram." Applicant also respectfully submits that the Fowlow–Hasegawa combination fails to teach or suggest that "one of said function portions which corresponds to said one function definition identifies a command for said image processing program." Applicant also respectfully submits that the Fowlow–Hasegawa combination fails to teach or suggest that "execution of said one function portion causes execution of said command by said image processing program in a manner which affects image data present in said one function portion."

Examiner's Response:

The Applicant has not pointed out any error in the obviousness reasoning provided in the rejection. The arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

(B) "In addition, Applicant submits that the there is no teaching, suggestion, or motivation to combine or modify the teachings of Fowlow and Hasegawa either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. The mere assertion that the teachings of one reference might improve the teachings of another reference, as the Examiner states, does not provide the required suggestion to combine. Moreover, nothing in Fowlow or Hasegawa suggests or motivates the proposed combination, nor has the Examiner provided evidence that suggests the proposed combination. For this additional reason, Applicant respectfully requests the Examiner to reconsider and withdraw the rejection of Claims 1, 3, 4, 6, 7, 14, 21, and 22."

Examiner's Response:

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5

USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). It would have been obvious to one skilled in the art at the time the invention was made to combine the Fowlow invention that provides a set of predetermined functions identifying an application program with a command that affects data, being image data as disclosed by Hasegawa, because the predetermined function definitions are well suited to manage the parameters and their values as disclosed by Hasegawa in the Abstract, providing a command for image processing in the object builder of Fowlow.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Shrader whose telephone number is (703) 305-8046. The examiner can normally be reached on M-F 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Lawrence Shrader Examiner Art Unit 2124

October 19, 2004

KAKALI CHAKI

SUPERVISORY PATENT EXAMINATION
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